```
DDDDDDDDDDD       IIIIIIIII       SSSSSSSSSSS   MMM         MMM     OOOOOOOOO     UUU         UUU
DDDDDDDDDDDD      IIIIIIIII       SSSSSSSSSSS   MMM         MMM     OOOOOOOOO     UUU         UUU
DDDDDDDDDDDD      IIIIIIIII       SSSSSSSSSSS   MMM         MMM     OOOOOOOOO     UUU         UUU
DDD         DDD      III        SSS            MMMMMM   MMMMMM  OOO         OOO   UUU         UUU
DDD         DDD      III        SSS            MMMMMM   MMMMMM  OOO         OOO   UUU         UUU
DDD         DDD      III        SSS            MMMMMM   MMMMMM  OOO         OOO   UUU         UUU
DDD         DDD      III        SSS            MMM MMM  MMM     OOO         OOO   UUU         UUU
DDD         DDD      III        SSS            MMM MMM  MMM     OOO         OOO   UUU         UUU
DDD         DDD      III        SSS            MMM MMM  MMM     OOO         OOO   UUU         UUU
DDD         DDD      III           SSSSSSSSS   MMM      MMM     OOO         OOO   UUU         UUU
DDD         DDD      III           SSSSSSSSS   MMM      MMM     OOO         OOO   UUU         UUU
DDD         DDD      III           SSSSSSSSS   MMM      MMM     OOO         OOO   UUU         UUU
DDD         DDD      III                  SSS  MMM      MMM     OOO         OOO   UUU         UUU
DDD         DDD      III                  SSS  MMM      MMM     OOO         OOO   UUU         UUU
DDD         DDD      III                  SSS  MMM      MMM     OOO         OOO   UUU         UUU
DDD         DDD      III                  SSS  MMM      MMM     OOO         OOO   UUU         UUU
DDD         DDD      III                  SSS  MMM      MMM     OOO         OOO   UUU         UUU
DDD         DDD      III                  SSS  MMM      MMM     OOO         OOO   UUU         UUU
DDDDDDDDDDDD      IIIIIIIII       SSSSSSSSSSS   MMM      MMM     OOOOOOOOO     UUUUUUUUUUUUUUU
DDDDDDDDDDDD      IIIIIIIII       SSSSSSSSSSS   MMM      MMM     OOOOOOOOO     UUUUUUUUUUUUUUU
DDDDDDDDDDDD      IIIIIIIII       SSSSSSSSSSS   MMM      MMM     OOOOOOOOO     UUUUUUUUUUUUUUU
DDDDDDDDDDDD      IIIIIIIII       SSSSSSSSSSS   MMM      MMM     OOOOOOOOO     UUUUUUUUUUUUUUU
```

```
Sy
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CL
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```
DDDDDDDD      IIIIII      SSSSSSSS  PPPPPPPP      AAAAAA    RRRRRRRR
DDDDDDDD      IIIIII      SSSSSSSS  PPPPPPPP     AAAAAA     RRRRRRRR
DD      DD      II      SS        PP      PP   AA      AA   RR      RR
DD      DD      II      SS        PP      PP   AA      AA   RR      RR
DD      DD      II      SS        PP      PP   AA      AA   RR      RR
DD      DD      II      SS        PP      PP   AA      AA   RR      RR
DD      DD      II        SSSSSS  PPPPPPPP     AA      AA   RRRRRRRR
DD      DD      II        SSSSSS  PPPPPPPP     AA      AA   RRRRRRRR
DD      DD      II              SS PP           AAAAAAAAAA   RR  RR
DD      DD      II              SS PP           AAAAAAAAAA   RR  RR
DD      DD      II              SS PP           AA      AA   RR    RR      ....
DD      DD      II              SS PP           AA      AA   RR    RR      ....
DDDDDDDD      IIIIII    SSSSSSSS  PP           AA      AA   RR      RR    ....
DDDDDDDD      IIIIII    SSSSSSSS  PP           AA      AA   RR      RR    ....

LL            IIIIII      SSSSSSSS
LL            IIIIII      SSSSSSSS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II      SS
LL              II        SSSSSS
LL              II        SSSSSS
LL              II              SS
LL              II              SS
LL              II              SS
LL              II              SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
;     1          0001  0 MODULE DISPAR (
;     2          0002  0                 MAIN = DISMOUNT_PARSE,
;     3          0003  0                 LANGUAGE (BLISS32),
;     4          0004  0                 IDENT = 'V04-000'
;     5          0005  0                 ) =
;     6          0006  1 BEGIN
;     7          0007  1
;     8          0008  1 !
;     9          0009  1 !*****************************************************************************
;    10          0010  1 !*                                                                           *
;    11          0011  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
;    12          0012  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                    *
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;    18          0018  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY    *
;    19          0019  1 !*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY        *
;    20          0020  1 !*  TRANSFERRED.                                                              *
;    21          0021  1 !*                                                                           *
;    22          0022  1 !*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE     *
;    23          0023  1 !*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT         *
;    24          0024  1 !*  CORPORATION.                                                              *
;    25          0025  1 !*                                                                           *
;    26          0026  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS      *
;    27          0027  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                   *
;    28          0028  1 !*                                                                           *
;    29          0029  1 !*                                                                           *
;    30          0030  1 !*****************************************************************************
;    31          0031  1
;    32          0032  1 !++
;    33          0033  1 !
;    34          0034  1 ! FACILITY:  MOUNT Utility Structure Level 1
;    35          0035  1 !
;    36          0036  1 ! ABSTRACT:
;    37          0037  1 !
;    38          0038  1 !       This module contains the data base and utilities used to acquire the
;    39          0039  1 !       DISMOUNT command line from the CLI parser.
;    40          0040  1 !
;    41          0041  1 ! ENVIRONMENT:
;    42          0042  1 !
;    43          0043  1 !       STARLET operating system, including privileged system services
;    44          0044  1 !       and internal exec routines.
;    45          0045  1 !
;    46          0046  1 !--
;    47          0047  1 !
;    48          0048  1 !
;    49          0049  1 ! AUTHOR:  Andrew C. Goldstein,  CREATION DATE:  24-Oct-1977  10:45
;    50          0050  1 !
;    51          0051  1 ! MODIFIED BY:
;    52          0052  1 !
;    53          0053  1 !       V03-003 MHH0004         Hai Huang                   28-Feb-1984
;    54          0054  1 !               Add cluster-wide mount support (/CLUSTER qualifier).
;    55          0055  1 !
;    56          0056  1 !       V03-002 MHH0003         Hai Huang                   16-Feb-1984
;    57          0057  1 !               Add forced dismount support (/ABORT qualifier).
```

```
;    58          0058  1 !
;    59          0059  1 !       V03-001 MCN0134         Maria del C. Nasr       31-Oct-1983
;    60          0060  1 !               Change to new CLI interface.
;    61          0061  1 !
;    62          0062  1 !       V02-004 STJ0141         Steven T. Jeffreys      13-Nov-1981
;    63          0063  1 !               Change interface to use the $DISMOU system service to
;    64          0064  1 !               complete the dismount.  The version 2 command line
;    65          0065  1 !               parser must be used.
;    66          0066  1 !
;    67          0067  1 !       V02-003 PCG0001         Peter C. George         03-Feb-1981 10:00
;    68          0068  1 !               Change MOUNTMSG require to DISMOUMSG.
;    69          0069  1 !
;    70          0070  1 !       V02-002 ACG0181         Andrew C. Goldstein,    9-Oct-1980  16:01
;    71          0071  1 !               Fix cross facility source reference
;    72          0072  1 !
;    73          0073  1 !       X0101   ACG0003         Andrew C. Goldstein,  29-Nov-1978  20:32
;    74          0074  1 !       Add multi-volume disk support (/UNIT switch)
;    75          0075  1 !
;    76          0076  1 !       X0100   ACG0001         Andrew C. Goldstein,  24-Oct-1978  13:47
;    77          0077  1 !       Previous revision history moved to [DISMOU.SRC]DISMOUNT.REV
;    78          0078  1 !**
;    79          0079  1
;    80          0080  1
;    81          0081  1 LIBRARY 'SYS$LIBRARY:LIB.L32';
;    82          0082  1 REQUIRE 'LIB$:MOUDEF.B32';
;    83          0614  1 REQUIRE 'LIBD$:[VMSLIB.OBJ]DISMOUMSG.B32';
;    84          0691  1 LIBRARY 'SYS$LIBRARY:CLIMAC.L32';
;    85          0692  1 LIBRARY 'SYS$LIBRARY:TPAMAC.L32';
;    86          0693  1
```

```
;    88          0694  1
;    89          0695  1 ! CLI routines
;    90          0696  1 !
;    91          0697  1
;    92          0698  1 EXTERNAL ROUTINE
;    93          0699  1     CLI$PRESENT,
;    94          0700  1     CLI$GET_VALUE;
;    95          0701  1
;    96          0702  1 ! Define descriptors for the CLI parser.
;    97          0703  1 !
;    98          0704  1
;    99          0705  1 BIND
;   100          0706  1     UNLOAD_DESC = $DESCRIPTOR ('UNLOAD'),
;   101          0707  1     UNIT_DESC   = $DESCRIPTOR ('UNIT'),
;   102          0708  1     ABORT_DESC  = $DESCRIPTOR ('ABORT'),
;   103          0709  1     CLUSTER_DESC= $DESCRIPTOR ('CLUSTER');
;   104          0710  1
;   105          0711  1
;   106          0712  1 ! CLI return status codes
;   107          0713  1 !
;   108          0714  1
;   109          0715  1 EXTERNAL LITERAL
;   110          0716  1     CLI$_PRESENT,
;   111          0717  1     CLI$_NEGATED,
;   112          0718  1     CLI$_DEFAULTED;
;   113          0719  1
```

```
;  115          0720  1 GLOBAL ROUTINE DISMOUNT_PARSE : NOVALUE =
;  116          0721  1
;  117          0722  1 !++
;  118          0723  1 !
;  119          0724  1 ! FUNCTIONAL DESCRIPTION:
;  120          0725  1 !
;  121          0726  1 !       This routine parses the DISMOUNT command line by calling the CLI
;  122          0727  1 !       result parse routines.
;  123          0728  1 !
;  124          0729  1 ! CALLING SEQUENCE:
;  125          0730  1 !       DISMOUNT_PARSE
;  126          0731  1 !
;  127          0732  1 ! INPUT PARAMETERS:
;  128          0733  1 !       None
;  129          0734  1 !
;  130          0735  1 ! IMPLICIT INPUTS:
;  131          0736  1 !       NONE
;  132          0737  1 !
;  133          0738  1 ! OUTPUT PARAMETERS:
;  134          0739  1 !       NONE
;  135          0740  1 !
;  136          0741  1 ! IMPLICIT OUTPUTS:
;  137          0742  1 !       Dismount status code
;  138          0743  1 !
;  139          0744  1 ! ROUTINE VALUE:
;  140          0745  1 !       NONE
;  141          0746  1 !
;  142          0747  1 ! SIDE EFFECTS:
;  143          0748  1 !       NONE
;  144          0749  1 !
;  145          0750  1 !--
;  146          0751  1
;  147          0752  2 BEGIN
;  148          0753  2
;  149          0754  2
;  150          0755  2 LOCAL
;  151          0756  2     DEVICE_DESC : $BBLOCK [DSC$C_S_BLN],        ! descriptor for device
;  152          0757  2     TEMP_MASK   : BITVECTOR [32],               ! mask for qualifiers
;  153          0758  2     STATUS;
;  154          0759  2
;  155          0760  2
;  156          0761  2 ! Initialize descriptor
;  157          0762  2 !
;  158          0763  2 CH$FILL (0, DSC$C_S_BLN, DEVICE_DESC);
;  159          0764  2 DEVICE_DESC [DSC$B_CLASS] = DSC$K_CLASS_D;
;  160          0765  2
;  161          0766  2 ! Get device name
;  162          0767  2 !
;  163          0768  2 CLI$GET_VALUE ( $DESCRIPTOR ('DEVICE'), DEVICE_DESC );
;  164          0769  2
;  165          0770  2 ! Initialize mask to hold the correct dismount option bits.
;  166          0771  2 !
;  167          0772  2 TEMP_MASK = 0;
;  168          0773  2
;  169          0774  2 ! Look for qualifiers, and set option bits accordingly.
;  170          0775  2 !
;  171          0776  2
```

```
;  172          0777  2 IF CLI$PRESENT ( UNIT_DESC )
;  173          0778  2 THEN
;  174          0779  2     TEMP_MASK [$BITPOSITION (DMT$V_UNIT)] = 1;
;  175          0780  2
;  176          0781  2 SELECTONE CLI$PRESENT ( UNLOAD_DESC ) OF
;  177          0782  2 SET
;  178          0783  2     [CLI$_PRESENT,
;  179          0784  2      CLI$_DEFAULTED] : TEMP_MASK [$BITPOSITION (DMT$V_NOUNLOAD)] = 0;
;  180          0785  2
;  181          0786  2     [CLI$_NEGATED]   : TEMP_MASK [$BITPOSITION (DMT$V_NOUNLOAD)] = 1;
;  182          0787  2 TES;
;  183          0788  2
;  184          0789  2
;  185          0790  2 IF CLI$PRESENT ( ABORT_DESC )
;  186          0791  2 THEN
;  187          0792  2     TEMP_MASK [$BITPOSITION (DMT$V_ABORT)] = 1;
;  188          0793  2
;  189          0794  2
;  190          0795  2 IF CLI$PRESENT ( CLUSTER_DESC )
;  191          0796  2 THEN
;  192          0797  2     TEMP_MASK [$BITPOSITION (DMT$V_CLUSTER)] = 1;
;  193          0798  2
;  194          0799  2
;  195          0800  2 ! Call the dismount system service to finish the dismount.
;  196          0801  2 !
;  197          0802  2
;  198          0803  2 STATUS = $DISMOU (DEVNAM=DEVICE_DESC, FLAGS=.TEMP_MASK);
;  199          0804  2
;  200          0805  2 $EXIT (CODE = .STATUS);
;  201          0806  2
;  202          0807  1 END;                                    ! end of routine DISMOUNT_PARSE


                                                .TITLE  DISPAR
                                                .IDENT  \V04-000\

                                                .PSECT  $PLIT$,NOWRT,NOEXE,2

                        44  41  4F  4C  4E  55  00000 P.AAB:   .ASCII  \UNLOAD\                ;
                                    00006               .BLKB   2
                                00000006        00008 P.AAA:   .LONG   6                      ;
                                00000000'       0000C          .ADDRESS P.AAB                ;
                                    54  49  4E  55  00010 P.AAD:   .ASCII  \UNIT\               ;
                                00000004        00014 P.AAC:   .LONG   4                      ;
                                00000000'       00018          .ADDRESS P.AAD                ;
                                    54  52  4F  42  41  0001C P.AAF:   .ASCII  \ABORT\          ;
                                                00021          .BLKB   3
                                00000005        00024 P.AAE:   .LONG   5                      ;
                                00000000'       00028          .ADDRESS P.AAF                ;
                    52  45  54  53  55  4C  43  0002C P.AAH:   .ASCII  \CLUSTER\              ;
                                                00033          .BLKB   1
                                00000007        00034 P.AAG:   .LONG   7                      ;
                                00000000'       00038          .ADDRESS P.AAH                ;
                        45  43  49  56  45  44  0003C P.AAJ:   .ASCII  \DEVICE\              ;
                                                00042          .BLKB   2
                                00000006        00044 P.AAI:   .LONG   6                      ;
                                00000000'       00048          .ADDRESS P.AAJ                ;
```

```
                                                    UNLOAD_DESC=        P.AAA
                                                    UNIT_DESC=          P.AAC
                                                    ABORT_DESC=         P.AAE
                                                    CLUSTER_DESC=       P.AAG
                                                            .EXTRN  CLI$PRESENT, CLI$GET_VALUE
                                                            .EXTRN  CLI$_PRESENT, CLI$_NEGATED
                                                            .EXTRN  CLI$_DEFAULTED, SYS$DISMOU
                                                            .EXTRN  SYS$EXIT

                                                            .PSECT  $CODE$,NOWRT,2

                                                00FC 00000          .ENTRY  DISMOUNT_PARSE, Save R2,R3,R4,R5,R6,R7      ; 0720
                                    57      0000G   CF   9E 00002  MOVAB   CLI$PRESENT, R7                             ;
                                    56      0000'   CF   9E 00007  MOVAB   P.AAI, R6                                   ;
                                    5E              08   C2 0000C  SUBL2   #8, SP                                      ;
                08          00      6E              00   2C 0000F  MOVC5   #0, (SP), #0, #8, DEVICE_DESC              ; 0763
                                                    6E   00014                                                          ;
                                        03      AE      02   90 00015  MOVB    #2, DEVICE_DESC+3                      ; 0764
                                                4040    8F   BB 00019  PUSHR   #^M<R6,SP>                             ; 0768
                                    0000G       CF      02   FB 0001D  CALLS   #2, CLI$GET_VALUE                      ;
                                                        52   D4 00022  CLRL    TEMP_MASK                              ; 0772
                                                    D0      A6   9F 00024  PUSHAB  UNIT_DESC                          ; 0777
                                    67                  01   FB 00027  CALLS   #1, CLI$PRESENT                        ;
                                    03                  50   E9 0002A  BLBC    R0, 1$                                 ;
                                    52                  02   88 0002D  BISB2   #2, TEMP_MASK                          ; 0779
                                                    C4      A6   9F 00030 1$:   PUSHAB  UNLOAD_DESC                     ; 0781
                                    67                  01   FB 00033  CALLS   #1, CLI$PRESENT                        ;
                            00000000G   8F              50   D1 00036  CMPL    R0, #CLI$_PRESENT                      ; 0783
                                                        09   13 0003D  BEQL    2$                                     ;
                            00000000G   8F              50   D1 0003F  CMPL    R0, #CLI$_DEFAULTED                    ;
                                                        05   12 00046  BNEQ    3$                                     ;
                                    52                  01   8A 00048 2$:   BICB2   #1, TEMP_MASK                     ; 0784
                                                        0C   11 0004B  BRB     4$                                     ;
                            00000000G   8F              50   D1 0004D 3$:   CMPL    R0, #CLI$_NEGATED                  ; 0786
                                                        03   12 00054  BNEQ    4$                                     ;
                                    52                  01   88 00056  BISB2   #1, TEMP_MASK                         ;
                                                E0      A6   9F 00059 4$:   PUSHAB  ABORT_DESC                      ; 0790
                                    67                  01   FB 0005C  CALLS   #1, CLI$PRESENT                        ;
                                    03                  50   E9 0005F  BLBC    R0, 5$                                 ;
                                    52                  04   88 00062  BISB2   #4, TEMP_MASK                         ; 0792
                                                F0      A6   9F 00065 5$:   PUSHAB  CLUSTER_DESC                    ; 0795
                                    67                  01   FB 00068  CALLS   #1, CLI$PRESENT                        ;
                                    03                  50   E9 0006B  BLBC    R0, 6$                                 ;
                                    52                  08   88 0006E  BISB2   #8, TEMP_MASK                         ; 0797
                                                        52   DD 00071 6$:   PUSHL   TEMP_MASK                         ; 0803
                                                04      AE   9F 00073  PUSHAB  DEVICE_DESC                          ;
                            00000000G   00              02   FB 00076  CALLS   #2, SYS$DISMOU                        ;
                                                        50   DD 0007D  PUSHL   STATUS                                ; 0805
                            00000000G   00              01   FB 0007F  CALLS   #1, SYS$EXIT                          ;
                                                            04 00086  RET                                           ; 0807

; Routine Size:  135 bytes,    Routine Base:  $CODE$ + 0000

;  203          0808  1
;  204          0809  1 END
```

```
;  205          0810  0 ELUDOM



;                                PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $PLIT$                          76  NOVEC,NOWRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                         135  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                             Library Statistics
;
;                                    -------- Symbols --------      Pages       Processing
;       File                         Total    Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]LIB.L32;1      18619        23         0        1000       00:01.7
;  _$255$DUA28:[SYSLIB]CLIMAC.L32;1      14         0         0           9       00:00.1
;  _$255$DUA28:[SYSLIB]TPAMAC.L32;1      42         0         0          14       00:00.1



;                                  COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:DISPAR/OBJ=OBJ$:DISPAR MSRC$:DISPAR/UPDATE=(ENH$:DISPAR)

; Size:         135 code + 76 data bytes
; Run Time:          00:11.2
; Elapsed Time:      00:34.6
; Lines/CPU Min:      4327
; Lexemes/CPU-Min:  36005
; Memory Used:  103 pages
; Compilation Complete
```